

The Causes of Earthquakes.

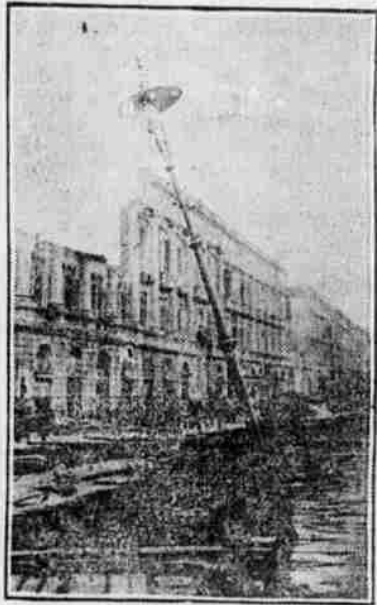
Theories and Facts Bearing on the Recent Remarkable Phenomena in Italy—The Continuance of Shocks in That Country.

Poor Italy! The troubles of that classic land consist not alone in the fact that the tremors of Mother Earth have already done great damage in the southern portion of the Kingdom, but in the circumstance also that the shocks continue and seem to be affecting a wider extent of territory. What does nature intend to do with this fair land, so famous in history and so blessed in many respects by Providence? With all its natural attractions it would be a dangerous place to dwell if the fate of Messina or Pompeii were constantly impending.

Inhabitants of Rome, Naples, Florence and Milan are becoming alarmed now because of the frequency of slight shocks in their vicinity and the seeming increase in their severity.

Geologists think that the relief which the first shock gives to the internal stresses that caused it may not be complete and that further adjustments of the rock strata may be necessary to restore equilibrium. In the present case the only serious harm done was wrought at the outset. Since the shock of Dec. 28 little life has been lost, and such walls as have been affected were tottering before.

The old theory that the interior of the earth is a fluid mass has few exponents now. Though calculation indicates that at a depth of twenty or thirty miles the heat must be so intense that it would, if exerted at the surface, melt the hardest known substances, a counteracting influence is certainly at work. Laboratory experiments prove that pressure raises the temperature at which any material will soften. So stupendous is the pressure exerted on the interior of the earth by twenty or thirty miles of rock above it that in



WATER FRONT OF MESSINA AFTER EARTHQUAKE.

the judgment of eminent astronomers—Professor George H. Darwin of Cambridge is one—the globe has the rigidity and far more than the hardness of the hardest steel. The late Lord Kelvin, the foremost physicist of the world during the latter part of his career, also entertained this opinion.

Italy is not the only country which is getting a severe shaking nowadays. Ever since the earthquake shocks began in southern Italy, on Dec. 28, the seismograph at the weather bureau in Washington and the magnetograph, belonging to the same service, at Mount Weather, Va., have been cutting up strange pranks, and the earth seems to be still quaking. The seismograph is the official recorder of earthquake shocks and writes its story with a stylus on black paper. The magnetograph photographs its records on sensitive sheets, each variation of the magnetic field being indicated instantly by a point of light darted on the paper from a mirror. The latter instrument recorded the Italian disaster at the instant of its occurrence, while the seismograph began making its strange tremulous writing nearly ten minutes after the forces of nature had wrought their havoc.

"It is impossible to tell just what magnetic disturbance took place in Italy, but that it was a convulsion of the magnetic field of some sort is shown by the fact that the quake was instantly recorded on the magnetograph," said Professor Charles F. Marvin, chief of the instrument division of the weather bureau. "Since the evening of the 27th, corresponding to early morning of the 28th in Italy, when we got the first records of the preliminary quakes, our instruments have been pretty busy."

Professor Marvin added that every few days shocks of greater or less severity had been recorded, many of them affecting our own continent. According to the records, it took the earthquake waves or propagations six minutes and fifty seconds to travel from San Francisco to Washington.

The photograph reproduced here, with showing the appearance of the water front of Messina after the earthquake was one of the first sent to this country and was taken shortly after the terrible disaster occurred. It indicates how the splendid and substantial stone buildings that faced the quay in a long semicircle were shaken down or irretrievably shattered by the force of the convulsion.

OREGON BRIEFLETS

Haines Burgess, of the senior class at Pacific College, won the local oratorical contest there Friday night. His subject was "Modern Tyranny." There were five contestants.

R. R. Butler, conveying the electoral vote of Oregon arrived in Washington Friday. The \$1000 forfeit for failure to arrive there by the time prescribed will not be assessed against Mr. Butler, as a copy had been received by mail.

M. J. Meany, the Portland youth, who was convicted upon his confession of an attempt to rob Henry Schilling, a well-known business man of Butte, Mont., was sentenced to 20 years in the Montana penitentiary.

Parts of a human skull were brought up last week from the channel of Coos Bay by the government dredger. With it were bits of clothing and a rock with a rope attached, which indicated that it might have been the remains of a suicide years ago.

In the person of Harold Barton, a 14-year-old boy from Nampa, Idaho, the Portland police think they have the "look-out" for a gang of yeggs. Barton was picked up along with Esmond Conger, a young boy from Baker City, by detectives. Both are runaways.

Two recruits received at Fort Stevens from Jefferson Barracks, Mo., engaged in a fierce fight Friday, and one of the men, Private White, is now in the hospital in a serious condition. Private Johnson, his assailant, is locked up under guard and will be court-martialed.

A. S. Hart, of Albany, has 12 hens which have laid 2595 eggs in the last year, and he claims it is the champion laying brood of the world. Included in this flock is the hen which recently established a new world's record by producing 256 eggs in a year.

Jesse H. Bond, president of the senior class of Oregon University and winner of last year's interstate oratorical contest, Friday won first place in the trout to select a representative for the inter-collegiate contest between nine Oregon colleges, at Corvallis next March.

Reports received from different sections of Wasco county are favorable to the outcome of the wheat crop. Prominent farmers say the grain crop is in better condition now than at this time last year. The damage to fruit has been exaggerated and fruitraisers are now hopeful of a fair yield.

Through the efforts of Oregon representatives, a provision has been inserted in the emergency river and harbor bill by the house committee, authorizing a survey of the Columbia and Willamette Rivers from Portland to the sea, with a view to ascertaining the cost of a 30-foot channel.

Governor Chamberlain has issued a warrant for the extradition of W. F. Gordon, who is under arrest in San Francisco and is wanted in Marshfield to answer to the charge of the embezzlement of \$176.77, alleged to have been collected by him as agent for a Portland piano concern upon the payment of an instrument.

Brooks & Sons, proprietors of the Carlton nursery, have received a shipment of choice walnut seed direct from France. There were eight hogsheads in the shipment and they contained 500,000 nuts. This seed will be planted on a tract of land one mile east of Carlton, which these men recently purchased for this purpose. This company now has over 100 acres in nursery and is constantly enlarging its holdings.

According to statements made by Salem loganberrygrowers, the recent freeze killed all kinds of vines down to the snow line, and there will be no loganberry crop this year, except what berries will grow on the few vines which, through neglect were lying upon the ground and were protected by the snow. This will be a severe blow to the loganberry industry, for a beginning was made the past season in finding a permanent market for the fruit. There are also many reports that

rose bushes have been killed down to the snow line.

The pool of the Willamette Valley Prune Association, consisting of the crop of 1908, has been settled for in full. The members receiving their last fractional payment covering the pool and the following figures represent the net prices secured for the principal sizes of Italians—30 to 40, 5.22c; 40 to 50, 4.65c; 50 to 60, 4.27c. Manager H. S. Gile, of the association, has received a telegram from an Eastern firm declining an offer of prunes because of the recent increase in freight rates. It is generally believed by prune packers that the increase in rates will materially injure the prune industry in Oregon.

NOTICE FOR PUBLICATION.

Department of the Interior, U. S. Land Office at La Grande, Oregon, January 11, 1909.

Notice is hereby given that Albert L. Childers, of Enterprise, Oregon, on October 16, 1902, made Homestead Entry, No. 12040, for W 1/2 NE 1/4, N 1/2 SE 1/4, Section 15, Township 1 North, Range 44 East, Willamette Meridian, has filed notice of intention to make Final Five Year Proof to establish claim to the land above described, before D. W. Sheahan, U. S. Commissioner, at his office at Enterprise, Oregon, on the 20th day of February, 1909.

Claimant names as witnesses: Frank W. Heskett, of Wallowa, Oregon; David H. Hearing, of Wallowa, Oregon; Nicolas W. Ownbey, of Enterprise, Oregon; James W. Childers, of Enterprise, Oregon.

F. C. Bramwell, Register.

NOTICE OF GUARDIAN'S SALE OF REAL PROPERTY.

In the County Court of the State of Oregon, for Wallowa County.

Notice is hereby given that by virtue of an order of the above-entitled Court, made and entered on the 8th day of January, 1909, licensing, authorizing and empowering the undersigned guardian of the estate of Beulah Bunnell and Irene Bunnell, minors, to sell all of the interest of the said minors in and to the E 1/2 of the NW 1/4 and the W 1/2 of the NE 1/4 of Section 35 in Township 1 North or Range 44 E. W. M. in Wallowa County, Oregon, the same being an undivided one-third interest, I will from and after the 12th day of February, 1909, proceed to sell at private sale all of the interest of said minors in and to the said described real property. The terms of said sale are as follows: The entire purchase price is to be paid in cash.

Dated this 13th day of January, 1909.

MINNIE AKINS, Guardian.

First insertion Jan. 14, 1909; last Feb. 11, 1909.

BURLEIGH & BOYD, Attorneys for Guardian. 215

NOTICE FOR PUBLICATION (Isolated Tract.)

PUBLIC LAND SALE, Department of the Interior, U. S. Land Office at La Grande, Oregon, January 16, 1909.

Notice is hereby given that, as directed by the Commissioner of the General Land Office, under provisions of Act of Congress approved June 27, 1906, (34 Stat., 517), we will offer at public sale, to the highest bidder, at ten o'clock a. m., on the 9th day of March, 1909, at this office, the following-described land: SE 1/4 NE 1/4 Section 24, Township 1 South, Range 44, East Willamette Meridian, Serial No. 0387.

Any persons claiming adversely the above-described land are advised to file their claims, or objections, on or before the time designated for sale. F. C. Bramwell, Register. 2315

Not just as good but better than any other 5 cent cigar, is the Advertiser. Enterprise made cigar.

NOTICE OF GUARDIAN'S SALE OF REAL PROPERTY.

Notice is hereby given, that under and by virtue of an order of the County Court of the State of Oregon, for Wallowa County, made and entered on January 9th, 1909, in the matter of the Estate and Guardianship of Robert H. Wright, Merle Wright, Stephen Wright and Walter Wright, minors, and heirs-at-law of Henry Mace, deceased, whereby the undersigned as foreign guardian of said minors was and is authorized, licensed and directed to sell at private sale all the interests of said minors, the same being an undivided one-twentieth interest belonging to each, or four-twentieths interest belonging to all, of said minors, of in and to the following described real property, to-wit:—

The SW 1/4 of NW 1/4 and NW 1/4 of SW 1/4 of Section 29, the E 1/2 of SE 1/4 of Section 30 and the E 1/2 of NE 1/4 and NW 1/4 of NE 1/4 of Section 31, except about 14 1/2 acres in a triangular shape in the southeast corner of the E 1/2 of NE 1/4 of said Section 31, conveyed by George B. Dexter and wife to William L. Bishop by deed recorded at page 99, Book I, of the Deed Record of Wallowa County, Oregon, and also except a square one-acre tract near the southwest corner of said E 1/2 of NE 1/4 of Section 31, conveyed by the said George B. Dexter and wife to the directors of School District No. 16, in said county, by deed recorded at page 367, Book I, of the Deed Record of Wallowa County, Oregon, to which deeds and the record thereof reference is hereby made for a more definite description of said excepted tracts,—all situated and being in Township 2 N., Range 43 East, W. M., in Wallowa county, Oregon, and containing 265 acres, more or less, and subject to an unassigned dower estate, to-wit: An undivided one-half interest for life, owned by Mary E. Mace, as widow of said Henry Mace, deceased, and also subject to a mortgage executed by the said George B. Dexter and wife to the Oregon State Land Board to secure a loan of \$250.00 and interest, which mortgage is recorded at page 55, Book I, of the Mortgage Record of said county.

I will, from and after the 26th day of February, 1909, proceed to sell at private sale to the highest and best bidder for cash, all the rights, title and interests of all of said minor wards in and to said described real property, together and in one sale, and subject to the exceptions and incumbrances above mentioned.

Dated this 26th day of January, 1909.

GEORGE C. WRIGHT, Foreign Guardian. 2415

Applications for Grazing Permits.

Notice is hereby given that all applications for permits to graze cattle, horses, and sheep within the WALLOWA NATIONAL FOREST during the season of 1909, must be filed in my office at Wallowa, Oregon, on or before March 1, 1909. Full information in regard to the grazing fees to be charged and blank forms to be used in making applications will be furnished upon request. 2415 HARVEY W. HARRIS, Supervisor.

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WM. McMURRY, GEN. PASS. AGENT, Portland, Oregon.

Oregon Day at Seattle Exposition.

Portland—July 17 has been formally selected as the "Official State of Oregon Day" at the Seattle Exposition. The Oregon state commission, Gov. Chamberlain and the commercial organizations of the state have been so notified by Chairman Josiah Collins, of the committee on special days, and steps will be taken at once by the various officials who are interested in the extensive plans Oregon has been making to make this day one of the most notable of the entire exposition. The extensiveness of the plans will depend largely upon whether the legislature will grant the extra appropriation of \$50,000 which the state commission is asking for.

Gatens, Acting Governor.

Salem—Robert Caples, of Portland, correspondent and newspaperman, will be secretary for George E. Chamberlain in the United States senate. This announcement was made from the governor's office Monday.

No information has been given as to the governor's plan in relation to the governorship, but it is pretty definitely understood here that William Gatens, present private secretary, will conduct the affairs of state for Oregon until Chamberlain's position in the senate is definitely known.

Smallpox Closes Silverton Schools.

Silverton—Because of smallpox in Silverton, schools, churches, theaters and all public places have been ordered closed by the mayor and business is practically at a standstill. Five cases are reported in different parts of the city, but all are of mild form.

Angry Father Kills Elopers.

Brownsville—Charles Powell, a well-known and highly-respected farmer residing three miles west of Brownsville, shot and instantly killed Homer Roper, a young man at the J. A. Nice place last week. The trouble which led to the fatal result arose over the fact that Roper, who is aged 22 years, about six months ago ran away with Powell's 15-year-old daughter, taking her to Pilot Rock. Powell followed and brought his daughter back and Roper soon came, too. Since that time he has persistently sought the girl, although warned to keep away.

The girl attended a party at the Nice place Thursday night, where Roper appeared and enticed her from the house. Powell was notified at his home and with his wife went to the Nice home and began a search for their daughter. She was found in Roper's company by Mrs. Powell.

Roper then went to the barn. Powell returned and when near the barn was accosted by Roper, who informed him that he had the drop on him. Powell, who carried a .44 Winchester rifle, then began shooting, hitting Roper just above the right eye, killing him instantly. Powell remained on the scene of the tragedy and when the officers appeared gave himself up.

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